

Message Text

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ACTION ERDA-07

INFO OCT-01 NEA-10 ISO-00 FEA-01 AID-05 CEA-01 CIAE-00

CIEP-02 COME-00 DODE-00 EB-07 FPC-01 H-02 INR-07

INT-05 L-03 NSAE-00 NSC-05 OMB-01 PM-04 USIA-15

SAM-01 OES-05 SP-02 SS-15 STR-04 TRSE-00 NRC-07

ACDA-10 IO-11 /132 W

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R 161005Z JAN 76

FM AMEMBASSY ISLAMABAD

TO SECSTATE WASHDC 3677

UNCLAS SECTION 1 OF 2 ISLAMABAD 0515/1

E.O. 11652: N/A

TAGS: TECH, ENRG, PK,

SUBJ: BACKGROUND INFORMATION ON PAKISTAN ENERGY

PROGRAMS

REF: 75 STATE 301432

SUMMARY: THIS MESSAGE PROVIDES ANSWERS TO QUESTIONS
POSED BY REFTEL. IN BRIEF, PAKISTAN IS DOING VERY
LITTLE IN ENERGY R AND D. MOST OF WHAT LITTLE IS OCCURRING
IS IN APPLYING NONTRADITIONAL ENERGY SOURCES SUCH AS
BIO- GA TO UE IN RURAL VILLAGE AREAS. END SUMMARY.

1. THE EMBASSY' RESPONSES ARE IN ACCORDANCE WITH THE
OUTLINE GIVEN IN REFTEL.

2. OVERALL GOVERNMENT STRUCTURE:

I. PAKISTAN HAS A PARLIAMENTARY FORM OF GOVERNMENT,
THE DOMINANT FIGURE BEING THE PRIME MINISTER. MAJOR
LEGISLATION MUST BE APPROVED BY THE NATIONAL ASSEMBLY
BUT IMPORTANT DECISIONS ARE OFTEN TAKEN BY EXECUTIVE
FILAT. ENERGY POLICY IN SORMULATED PRINICPALLY BY THE
MINISTRY OF RUEL, POWER AND NATURAL RESOURCES, BUT
IMPORTANT INPUTS ARE ALSO MADE BE THE PRIME MINISTER'S
ENERGY ADVISOR. AL NUCLEAR POLICY IS FORMULATED BY THE
AUTONOMOUS PAKISTAN ATOMIC ENERGY COMMISSION (PAEC). THE

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MINISTRY OF FINANCE, PLANNING AND ECONOMIC AFFAIRS HAS

CONSIDERABLE INFLUENCE IN TERMS OF BUDGETARY ALLOCATIONS AND COMMITMENTS INVOLVING FOREIGN BORROWING. THE PRIME MINISTER'S OFFICE MUST APPROVE ALL ENERGY POLICIES AND ACTIONS, BUT IN PRACTICE THIS IS LARGELY DELEGATED TO THE INTERAGENCY, MINISTERIAL-LEVEL EXECUTIVE COMMITTEE OF THE NATIONAL ECONOMIC COUNCIL (ECNEC).

II. A. MINISTRY OF FUEL, POWER AND NATURAL RESOURCES: THE MINISTRY FORMULATES POLICY, ADMINISTERS CONTROLS, AND ALSO DIRECTS SEVERAL STATE-OWNED CORPORATIONS. ITS TERMS OF REFERENCE COVER ALL NONNuclear FORMS OF ENERGY. THE MINISTRY HAS SEPARATE DIRECTORS GENERAL FOR PETROLEUM CONCESSIONS, PETROLEUM OPERATIONS, AND NATURAL GAS OPERATIONS WHICH HANDLE THE HYDROCARBON SECTOR. A NEWLY ORGANIZED ENERGY RESOURCES CELL WITHIN THE MINISTRY IS RESPONSIBLE FOR NONTRADITIONAL ENERGY SECTORS. UNDER THE AEGIS OF THE MINISTRY ARE TWO STATE-OWNED CORPORATIONS IN THE ENERGY FIELD: THE OIL AND GAS DEVELOPMENT CORPORATION, WHICH IS EXPLORING FOR OIL AND GAS; AND THE MINERAL DEVELOPMENT CORPORATION, WHICH HAS RESPONSIBILITY INTER ALIA FOR DEVELOPMENT OF COAL RESOURCES. ALSO UNDER THE MINISTRY IS THE SEMI-AUTONOMOUS WATER AND PWER DEVELOPMENT AUTHROTIIY (WAPDSA) WHICH IS RESPONSIBLE FOR BYDROELECTIRC GENERATION AND FOR CONVENTIONAL THERMAL POWER GENERATION OUTSIDE THE KARACHI AREA.

B. PAKISTAN ATOMIC ENERGY COMMISSION (PAEC): THE PAEC IS CONTROLLED BY A FOUR-MAN COMMISSION, HEADED BY A CHAIRMAN. IT FORMULATES NUCLEAR POLICY, OPERATES NUCLEAR INSTALLATIONS, AND REPRESENTS PAKISTAN AT INTER-NATIONAL MEETINGS ON NUCLEAR ENERGY MATTERS.

3. ENERGY POLICY; I.A. THE POLICY OF THE GOVERNMENT IS TOLLESSEN, AND IF POSSIBLE, ELIMINATE THE COUNTRY'S DEPENDENCE ON FOREIGN ENERGY SOURCES. THE MAJOR ENERGY SOURCE IS IMPORTED OIL WHICH CONTRIBUTES MORE THAN FORTY PERCENT OF TOTAL COMMERCIAL ENERGY, FOLLOWED BY NATURAL GAS, HYDEL ENERGY, COAL, AND NUCLEAR POWER.

B. AT PERSENT PAKISTAN LACKS THE MEANS TO ENGAGE TO AND SIGNIFICANT DEGREE IN ENERGY RESEARCH AND DEVELOPMENT. PRESENT POLICY IS TO ADAPT AND UTILIZE TECHNOLOGY ALREADY PROVEN ELSEWHERE. NO PRIORITIES HAVE BEEN ESTABLISHED. THE ENERGY RESORUCES CELL HAS A SMALL UNCLASSIFIED

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RESEARCH PROJECT TO DETERMINE IF SOLAR, WIND, MINI-BYDROPOWER, BIO-GAS, GEOTHERMAL, AND OTHER NONTRADITIONAL ENERGY SOURCES MIGHT BE ADAPTED FOR USE IN VILLAGES, RURAL AREAS, AND ISOLATED MINING AND INDUSTRIAL SITES. PARTS OF THIS HAVE BEEN CONTRACTED OUT. VERY LITTLE PROGRESS HAS BEEN MADE TO DATE. PROPOSALS HAVE BEEN MADE BUT NOT FULLY DEVELOPED RESEARCH INTO UTILIZATION AND UPGRADING OF SIZEABLE DEPOSITS OF LOW QUALITY COAL.

C. GOVERNMENT LABORATORIES ARE DOING VERY LITTLE ENERGY
R AND D RESEARCH. A VERY SMALL AMOUNT OF NUCLEAR RESEARCH IN
HEAT TRANSFER IS BEING DONE AT PAEC'S SMALL RESEARCH REACTOR.
THE ENERGY RESOURCES CELL HAS CONTRACTED SOME OF ITS WORK
TO UNIVERSITY DEPARTMENTS AND STATE OWNED ENTERPRISES.
D. THERE ARE NO KNOWN GOVERNMENT/ PRIVATE JOINT RESEARCH
AND DEVELOPMENT ACTIVITIES IN PAKISTAN.
E. THERE IS NO KNOWN PRIVATE INDUSTRY ENERGY R AND D IN

PAKISTAN.

F. THERE IS NO BASIC LEGISLATION DIRECTLY APPLYING TO
ENERGY RESEARCH AND DEVELOPMENT.

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TAGS: TECH, ENRG, PK,

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PROGRAMS

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4. II. ENERGY R AND D ACTIVITIES;

A. THE GOP DOES NOT PLAN TO CONDUCT AN APPRECIABLY LARGER
AMOUNT OF ENERGY R AND D IN THE FORESEEABLE FUTURE. OVER
TIME GOP OFFICIALS HOPE TO BE ABLE TO PERFORM INCREASINGLY
SOPHISTICATED ENGINEERING AND ADAPTATION WORK AND WOULD

LIKE TO UNDERTAKE SOME BASIC RESEARCH IN FIELDS WHERE OTHER COUNTRIES HAVE NOT ALREADY GAINED AN INSURMOUNTABLE LEAD, SUCH AS IN SMALL-SCALE NONTRADITIONAL ENERGY SOURCES.

B. BUDGET: THE GENERAL GOP BUDGETS ARE NOT GIVEN IN SUFFICIENT DETAILS TO INDICATE SPECIFIC ENERGY RESEARCH ITEMS. THE ONE IDENTIFIABLE BUDGET ITEM IS RUPEES 7,894,000(DOL797,000 FOR THE TWO-YEAR PROGRAM IN THE ENERGY RESOURCES CELL TO IDENTIFY SMALL-SCALE NONTRADITIONAL ENERGY SOURCES FOR THE RURAL AREAS. THIS PROJECT HAS ALREADY INVOLVED EXPERIMENTATION WITH BIO-GAS PLANTS AT GOVERNMENT-OWNED DAIRIES, AND 100 SMALL BIO-GAS PLANTS HAVE BEEN LOCATED IN DIVERSE AREAS OF THE COUNTRY
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FOR EXPERIMENTATION. A FURTHER 10,000 OF THESE PLANTS WILL BE DISTRIBUTED DURING THE NEXT FIVE YEARS. ANOTHER PORTION OF THIS NONTRADITIONAL ENERGY PROGRAM INVOLVES RESEARCH BY THE UNIVERSITY OF PESHAWAR INTO SOLAR STOVES FOR VILLAGE USE. THE TARGET IS TO HAVE 25,000 SUCH STOVES IN OPERATION WITHIN FIVE YEARS. THE UNIVERSITY IS ALSO TO EXAMINE THE EXPERIENCE OF FOREIGN COUNTRIES IN THE FIELD OF SOLAR WATER PUMPS. THESE WOULD BE FOR USE IN REMOTE REGIONS OF PAKISTAN AND IN AREAS WHERE WATER-LOGGING AND SALINITY ARE PROBLEMS ON IRRIGATED LANDS.

5. INTERNATIONAL ACTIVITIES. I. THE ONLY INTERNATIONAL ORGANIZATION IN THE ENERGY RESEARCH FIELD TO WHICH PAKISTAN BELONGS IS THE INTERNATIONAL ATOMIC ENERGY AGENCY. PAKISTAN IS ACTIVELY ASSOCIATED WITH IAEA ACTIVITIES AND HAD COOPERATED WITH THE IAEA IN ITS RESEARCH ACTIVITIES.

II. THE EMBASSY KNOWS OF NO FORMAL BILATERAL AGREEMENTS BETWEEN PAKISTAN AND OTHER COUNTRIES WHICH APPLY TO THE ENERGY SECTOR. PAKISTAN HAS BILATERAL TECHNOLOGY EXCHANGE RELATIONSHIPS WITH A NUMBER OF EUROPEAN COUNTRIES IN THE FIELD OF NUCLEAR ENERGY. THE ACTIVITIES ARE MOSTLY LIMITED TO TRAINING OF PAKISTANI SCIENTISTS. THE UNDP SUPPORTED A COMPREHENSIVE SURVEY OF PAKISTAN'S ENERGY POSITION WHICH WAS COMPLETED BY THE CANADIAN FIRM, ACREAS INTERNATIONAL, IN THE SUMMER OF 1975. THE GOP HAS RECENTLY REQUESTED UNDP ASSISTANCE IN THE RURAL NONTRADITIONAL ENERGY PROGRAM. UNDER THE SAME PROGRAM, IT HAS APPROACHED THE GOVERNMENT OF AUSTRALIA FOR EXPERT ASSISTANCE IN RESEARCH ON WINDMILLS.
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